	Application No.	Applicant(s)	<del>-</del>
Madian of Allaces Lille	10/751,175	JEONG, NYEON-SIK	
Notice of Allowability	Examiner	Art Unit	
	Shouxiang Hu	2811	
The MAILING DATE of this communication appearance All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this app or other appropriate communication IGHTS. This application is subject to	olication. If not included will be mailed in due c	d ourse. <b>THIS</b>
1. This communication is responsive to			
2. The allowed claim(s) is/are <u>1-10</u> .			
<ul> <li>3.  Acknowledgment is made of a claim for foreign priority ur</li> <li>a)  All b)  Some* c)  None of the:</li> <li>1.  Certified copies of the priority documents have</li> </ul>			
2.   Certified copies of the priority documents have			
3. Copies of the certified copies of the priority do	• • • • • • • • • • • • • • • • • • • •		on from the
International Bureau (PCT Rule 17.2(a)).		5 ,.	
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the requ	iirements
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give			TICE OF
5. CORRECTED DRAWINGS ( as "replacement sheets") mus	st be submitted.		
(a) ☐ including changes required by the Notice of Draftspers		948) attached	
1)  hereto or 2)  to Paper No./Mail Date			
(b) including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment or in the C	ffice action of	
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t			ack) of
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT			ote the
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5. ☐ Notice of Informal P	atent Application (PTO	-152)
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6. 🛛 Interview Summary	(PTO-413),	102)
3.  Information Disclosure Statements (PTO-1449 or PTO/SB/0	Paper No./Mail Dat 08), 7. ⊠ Examiner's Amendr	e <u>20050916</u> . nent/Comment	
Paper No./Mail Date	8. 🛛 Examiner's Stateme	ent of Reasons for Allov	vance
of Biological Material	9.		
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Art Unit: 2811

### **EXAMINER'S AMENDMENT**

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Andrew Fortney (RN: 34,600) on September 16, 2005.

The application has been amended as follows:

## IN THE CLAIMS

In claim 1, at the end, between "the second chop" and ".", insert: --, wherein the heat spreader is positioned between the first and second chips--.

In claim 6, at the end, between "the second chop" and ".", insert: --, wherein the heat spreader is positioned between the first and second chips--.

# Allowable Subject Matter

Claims 1-10 are allowed.

#### Reasons for Allowance

The following is an examiner's statement of reasons for allowance: Prior art does not teach or render obvious a semiconductor package as defined in the above allowed

claims, comprising particularly: a heat spreader located between first and second chips and thermally connected to the two chips through thermally conductive members, wherein the second chip is connected to a lower PCB, and the first chip is connected to an upper PCB or lead frame.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. References A-J are cited as being related to a stacked-chip packaging structure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Shouxiang Hu whose telephone number is 571-272-1654. The examiner can normally be reached on Monday through Thursday, 7:30 AM to 6:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eddie C. Lee can be reached on 571-272-1732. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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September 16, 2005

SHOUXIANG HU PRIMARY EXAMINER